APPENDIX B

SITE INSPECTION REPORT

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Re-Solve, Inc. Site Inspection – June 4, 2003
Five-Year Review, WA# 130-FRFE-0118

Attendees:

James Saylors – Weston Solutions, O&M Contractor
Mike Worthy – ENSR, RP Contractor
Mike O'Reilly – Town of Dartmouth, Environmental Affairs Coordinator
Phoebe Call – TtNUS, EPA Contractor, Project Manager
Steve Vetere – TtNUS, EPA Contractor, Project Engineer

The site inspection was completed on June 4, 2003. TtNUS arrived at the site about 9:10 to overcast skies with light drizzle. J. Saylors provided a health and safety briefing. TtNUS confirmed that current health and safety plan, applicable MSDS', current O&M manual, and updated maintenance logs are located on site and are readily available.

J. Saylors provided TtNUS with a brief demonstration of the computer system that is used to monitor the treatment system. He noted that the computer system functions extremely well, the only shortcoming being inaccurate influent flow measurements taken from individual extraction wells. J. Saylors has developed a system adequate to monitor influent flowrates that involves attaching a hose to individual sampling ports at the influent manifold and measuring the mass (and converting it to volume) flow rate per unit time. Total system flowrate can be accurately measured automatically using flow meters located downstream of the extraction well manifold.

TtNUS inquired about alarmed events. The last alarmed event occurred on May 17, 2003, due to a loss of electricity originating from off-site. The loss of electricity was detected and the mechanisms in place to notify the plant operator worked successfully. The plant was back online in 1.5 hours. TtNUS reviewed the activity log for this series of events. J. Saylors stated that the vast majority of alarmed events throughout the history of the plant have come as a result of electricity outages originating from off site, and not from a malfunction of treatment plant components.

TtNUS requested data for filter cake and air emissions. Air emissions data were not readily available, but sampling is done routinely in accordance with the process monitoring program. J. Saylors noted that the next sampling was coming up soon. J. Saylors did have recent data for the filter cake – 13 mg/kg PCB, Aroclor 1242 only. The cake is typically in this range and is thus transported off-site in drums for disposal as non-hazardous, non-TSCA waste.

Changes to improve the operation of the GWTP were noted: changed from cationic polymers initially to now use anionic. Also now add aluminum chlorhydrate to improve the flocculation and solids settling.

M. Worthy provided O&M cost data for Year 5 (ending April 2003) in response to a TtNUS request.

TtNUS conducted a site walkover to observe the progress of the wetland restoration in the north and east of the Site. Surface water levels in the wetland areas and in the unnamed tributaries were relatively high. Erosion controls that were placed on the bank adjacent to the wetlands were intact and appear to be functioning properly. J. Saylors noted that wildlife seems to have

become more abundant in and around the wetlands and TtNUS noted considerable bird activity within the former waste management area.

TtNUS left the Site about 11:00 and visited the Dartmouth Town Hall.

Visit to Dartmouth Town Hall

Spoke briefly with Town Planner, Donald Perry, who was familiar with the Site but suggested that we speak with Michael Gagne, Town Administrator, or the Town Treasurer regarding the property's tax status.

Reviewed town zoning, flood hazard, open space, etc. maps and confirmed the following:

1. The Re-Solve Site remains within an Aquifer Protection Area 3.
2. The area around the Site remains zoned as SRB – single residence B.
3. The area along the Copicut River is a Flood Hazard Zone A.

Met with Michael Gagne, Town Administrator. He was quite familiar with the Site. The property taxes for the Site are in arrears and while he would like to have the property taken off the tax rolls as a receivable, he has no interest in the Town taking the property for back taxes. He stated the town has no interest, use, or plans for the property. We inquired about the community interest level in the Site. While he commented that during the source control operations, interest and concerns were high, the Site is no longer an issue with the public. He did comment about public concerns with boating in Cornell Pond. The public understand the fish advisories, but many of the signs and postings have disappeared. Mr. Gagne thought it would be beneficial if new signs were posted around the Pond and/or via the Sportsmen's club.

Michael O'Reilly provided TtNUS with printouts of zoning, aquifer, wetland, flood hazard, and other maps of the area around the Re-Solve Site. TtNUS confirmed that there are no rare and endangered species that have been mapped around the vicinity of the Site.

At the Assessor's Office TtNUS personnel located the property on Tax Map 71, Parcel 30. The owner of record is listed as Re-Solve, Inc.

The Town Clerk confirmed that the Zoning By-Laws available on the town website reflect current definitions of zoning classifications and aquifer districts.

Visit to Bristol County Registry of Deeds

TtNUS visited the Bristol County Registry of Deeds in New Bedford and confirmed that the Restriction Agreement (Book 3512, page 98) and revised Easement with the Reeds (Book 4146, page 274) are recorded in the county deeds.

Visit to Southworth Library, Dartmouth

TtNUS visited the Southworth Library in Dartmouth. The reference librarian directed us to the Re-Solve documents. The documents on the shelves included the entire 9/23/87 Administrative Record, many source control documents, the RI, FS and other late 1980s, and early 1990s

documents. There were no MOM documents on the shelves. The librarian stated that he'd last received a document from EPA about 1.5 years ago and indicated that there were other documents that had been received but were not on the shelves.

ReSolve Site Inspection
Photographic Record

Photo No: 1

Date: June 4, 2003

Comments: Treatment building looking east

Photo No: 2

Date: June 4, 2003

Comments: Packed tower air stripper

ReSolve Site Inspection
Photographic Record

Photo No: 3

Date: June 4, 2003

Comments: Filter cake. Just collected from the filter press.

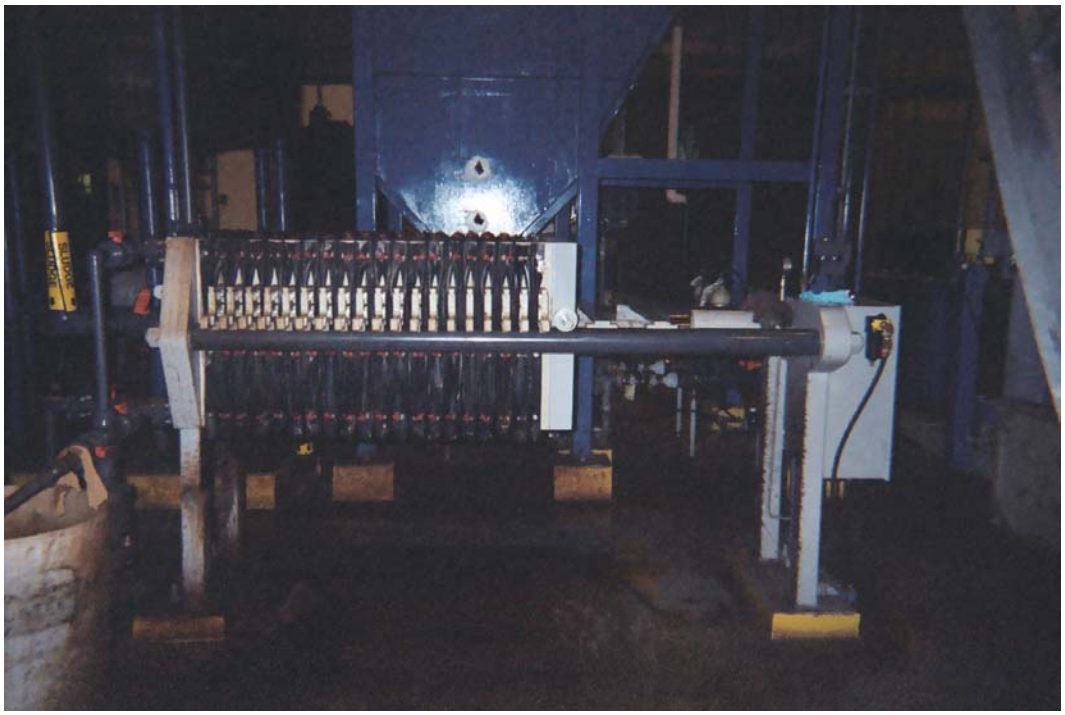

Photo No: 4

Date: June 4, 2003

Comments: Filter press in foreground, clarifier (blue) in background.

ReSolve Site Inspection
Photographic Record

Photo No: 5

Date: June 4, 2003

Comments: North wetland. Note ponded water.

Photo No: 6

Date: June 4, 2003

Comments: From Algonquin Pipeline ROW looking into East wetland. Unnamed tributary in foreground.

ReSolve Site Inspection
Photographic Record

Photo No: 7

Date: June 4, 2003

Comments: DNAPL well point enclosure

Photo No: 8

Date: June 4, 2003

Comments: Enclosure for RW-4 outside of perimeter fence line. Facing south.

ReSolve Site Inspection
Photographic Record

Photo No: 9

Date: June 4, 2003

Comments: RW8 – note cable lock around electrical box. Algonquin Pipeline in background beyond fence line.

Photo No: 10

Date: June 4, 2003

Comments: BFP pilot study area (located on upland area west of the GWTP building) – note willow saplings

Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist

("N/A" refers to "not applicable")

I. SITE INFORMATION	
Site name: ReSolve Inc.	**Date of inspection:** June 4, 2003
Location and Region: N. Dartmouth, MA/Region I	**EPA ID:** MAD980520621
Agency, office, or company leading the five-year review: EPA/TtNUS	**Weather/temperature:** overcast with light drizzle, approximately 60° F

Remedy Includes: (Check all that apply)

- ☐ Landfill cover/containment
- ☒ Access controls
- ☒ Institutional controls
- ☒ Groundwater pump and treatment
- ☐ Surface water collection and treatment
- ☐ Other _____
- ☐ Monitored natural attenuation
- ☒ Groundwater containment
- ☐ Vertical barrier walls

Attachments: ☐ Inspection team roster attached ☐ Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** James Saylors _____ 6/4/03
   Name Title Date
   Interviewed ☒ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

2. **O&M staff** _____ _____ _____
   Name Title Date
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; □ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; □ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; □ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; □ Report attached _____
_____

4. **Other interviews** (optional) □ Report attached.

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Documents**

X O&M manual	X Readily available	X Up to date	□ N/A
□ As-built drawings	□ Readily available	□ Up to date	□ N/A
X Maintenance logs	X Readily available	X Up to date	□ N/A

Remarks

2. **Site-Specific Health and Safety Plan** — X Readily available — X Up to date — □ N/A
   □ Contingency plan/emergency response plan — X Readily available — X Up to date — □ N/A
   Remarks MSDS sheets on site

3. **O&M and OSHA Training Records** — X Readily available — X Up to date — □ N/A
   Remarks on line

4. **Permits and Service Agreements**

□ Air discharge permit	□ Readily available	□ Up to date	□ N/A
□ Effluent discharge	□ Readily available	□ Up to date	□ N/A
□ Waste disposal, POTW	□ Readily available	□ Up to date	□ N/A
□ Other permits	□ Readily available	□ Up to date	□ N/A

Remarks

5. **Gas Generation Records** — □ Readily available — □ Up to date — X N/A
   Remarks

6. **Settlement Monument Records** — □ Readily available — □ Up to date — X N/A
   Remarks

7. **Groundwater Monitoring Records** — X Readily available — X Up to date — □ N/A
   Remarks DOCUMENTED IN YEARLY OPERATIONS REPORTS

8. **Leachate Extraction Records** — □ Readily available — □ Up to date — X N/A
   Remarks

9. **Discharge Compliance Records**

□ Air	□ Readily available	□ Up to date	□ N/A
X Water (effluent)	X Readily available	X Up to date	□ N/A

Remarks

10. **Daily Access/Security Logs** — X Readily available — X Up to date — □ N/A
    Remarks

IV. O&M COSTS

1. **O&M Organization**

□ State in-house □ Contractor for State
□ PRP in-house ☒ Contractor for PRP
□ Federal Facility in-house □ Contractor for Federal Facility
□ Other_____

_____

2. **O&M Cost Records**

☒ Readily available ☒ Up to date
☒ Funding mechanism/agreement in place
Original O&M cost estimate SEE REPORT □ Breakdown attached

Total annual cost by year for review period if available

From_____ To_____ _____ □ Breakdown attached
Date Date Total cost
From_____ To_____ _____ □ Breakdown attached
Date Date Total cost
From_____ To_____ _____ □ Breakdown attached
Date Date Total cost
From_____ To_____ _____ □ Breakdown attached
Date Date Total cost
From_____ To_____ _____ □ Breakdown attached
Date Date Total cost

3. **Unanticipated or Unusually High O&M Costs During Review Period**

Describe costs and reasons: SEE REPORT

_____
_____
_____
_____
_____

V. ACCESS AND INSTITUTIONAL CONTROLS □ Applicable □ N/A

A. Fencing

1. **Fencing damaged** □ Location shown on site map ☒ Gates secured □ N/A

Remarks GOOD CONDITION, BARBED WIRE INTACT

_____

B. Other Access Restrictions

1. **Signs and other security measures** □ Location shown on site map □ N/A

Remarks MANY SIGNS POSTED, EASILY VISIBLE

_____

C. Institutional Controls (ICs)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented ☐ Yes ☒ No ☐ N/A
Site conditions imply ICs not being fully enforced ☐ Yes ☒ No ☐ N/A

Type of monitoring (*e.g.*, self-reporting, drive by) SECURITY CAMERA, ON-SITE PERSONEL
Frequency DAILY - BUSINESS HOURS
Responsible party/agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.

Reporting is up-to-date ☐ Yes ☐ No ☐ N/A
Reports are verified by the lead agency ☐ Yes ☐ No ☐ N/A

Specific requirements in deed or decision documents have been met ☐ Yes ☐ No ☐ N/A
Violations have been reported ☐ Yes ☐ No ☐ N/A
Other problems or suggestions: ☐ Report attached

2. **Adequacy** ☒ ICs are adequate ☐ ICs are inadequate ☐ N/A
Remarks _____

D. General

1. **Vandalism/trespassing** ☐ Location shown on site map ☒ No vandalism evident
Remarks NONE REPORTED BY O&M CONTRACTOR

2. **Land use changes on site** ☐ N/A
Remarks NONE

3. **Land use changes off site** ☐ N/A
Remarks NONE

VI. GENERAL SITE CONDITIONS

A. Roads ☒ Applicable ☐ N/A

1. **Roads damaged** ☐ Location shown on site map ☒ Roads adequate ☐ N/A
Remarks _____

B. Other Site Conditions

Remarks SITE IN GOOD CONDITION. EROSION CONTROLS NEAR WETLANDS APPEAR EFFECTIVE.

VII. LANDFILL COVERS □ Applicable ☒ N/A

VIII. VERTICAL BARRIER WALLS □ Applicable ☒ N/A

IX. GROUNDWATER/SURFACE WATER REMEDIES ☒ Applicable □ N/A

A. Groundwater Extraction Wells, Pumps, and Pipelines ☒ Applicable □ N/A

1. **Pumps, Wellhead Plumbing, and Electrical**
☒ Good condition ☒ All required wells properly operating □ Needs Maintenance □ N/A
Remarks MONITORED CONTINUALLY BY O&M CONTRACTOR; EXTRACTION WELLS LOCKED AND ALARMED

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☒ Good condition □ Needs Maintenance
Remarks MONITORED CONTINUALLY BY O&M CONTRACTOR

3. **Spare Parts and Equipment**
☒ Readily available ☒ Good condition □ Requires upgrade □ Needs to be provided
Remarks INSIDE TREATMENT BUILDING

B. Surface Water Collection Structures, Pumps, and Pipelines □ Applicable ☒ N/A

1. **Collection Structures, Pumps, and Electrical**
□ Good condition □ Needs Maintenance
Remarks

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
□ Good condition □ Needs Maintenance
Remarks

3. **Spare Parts and Equipment**
□ Readily available □ Good condition □ Requires upgrade □ Needs to be provided
Remarks

C. Treatment System ☒ Applicable ☐ N/A

1. **Treatment Train** (Check components that apply)
   - ☒ Metals removal ☐ Oil/water separation ☐ Bioremediation
   - ☒ Air stripping ☒ Carbon adsorbers
   - ☐ Filters_____
   - ☒ Additive (*e.g.*, chelation agent, flocculent) ANIONIC POLYMER
   - ☒ Others CATALYTIC OXIDATION (PROPANE)
   - ☒ Good condition ☐ Needs Maintenance
   - ☒ Sampling ports properly marked and functional
   - ☒ Sampling/maintenance log displayed and up to date
   - ☒ Equipment properly identified
   - ☐ Quantity of groundwater treated annually_____
   - ☐ Quantity of surface water treated annually_____
   - Remarks_____

2. **Electrical Enclosures and Panels** (properly rated and functional)
   - ☐ N/A ☒ Good condition ☐ Needs Maintenance
   - Remarks_____

3. **Tanks, Vaults, Storage Vessels**
   - ☐ N/A ☒ Good condition ☐ Proper secondary containment ☐ Needs Maintenance
   - Remarks_____

4. **Discharge Structure and Appurtenances**
   - ☐ N/A ☐ Good condition ☐ Needs Maintenance
   - Remarks NOT ABLE TO OBSERVE – HIGH WATER LEVELS IN EAST WETLAND. NONE REPORTED.

5. **Treatment Building(s)**
   - ☐ N/A ☒ Good condition (esp. roof and doorways) ☐ Needs repair
   - ☒ Chemicals and equipment properly stored
   - Remarks_____

6. **Monitoring Wells** (pump and treatment remedy)
   - ☒ Properly secured/locked ☒ Functioning ☒ Routinely sampled ☒ Good condition
   - ☐ All required wells located ☐ Needs Maintenance ☐ N/A
   - Remarks_____

D. Monitoring Data

1. Monitoring Data
   - ☒ Is routinely submitted on time ☒ Is of acceptable quality

2. Monitoring data suggests:
   - ☒ Groundwater plume is effectively contained ☒ Contaminant concentrations are declining

D. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)
   □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition
   □ All required wells located □ Needs Maintenance □ N/A
   Remarks_____

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

SEE REPORT

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

SEE REPORT

C.	Early Indicators of Potential Remedy Problems
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. SEE REPORT

D.	Opportunities for Optimization
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. SEE REPORT